

WHAT IS CLAIMED IS:

1. A display controlling apparatus, comprising:
data outputting units to be electrically connectable to respective display
5 apparatuses;
an information inputting unit to be operable to have inputted therein information to
be required for said display apparatuses to display on screens;
a controlling unit for producing contents to be displayed by said display
apparatuses from said information inputted by said information inputting unit; and
10 a video memory having stored therein said contents produced by said controlling
unit, wherein
said controlling unit is operative to output said contents stored in said video
memory to said display apparatuses through said data outputting units.
- 15 2. A display controlling apparatus as set forth in claim 1, in which
said controlling unit is operative to adjust the resolution of each of said contents to
be displayed by said display apparatuses on the basis of the number of said display
apparatuses electrically connected to said signal outputting units, and to output said contents
to be displayed at said adjusted resolution by said display apparatuses through said data
20 outputting units, and in which
said controlling unit is operative to maintain said resolution of each of said contents
to be displayed by said display apparatuses when the judgment is made that said number of
said display apparatuses is equal to one.
- 25 3. A display controlling apparatus, comprising:
data outputting units to be electrically connectable to respective display
apparatuses;
an information inputting unit to be operable to have inputted therein data to be
required for said display apparatuses to display on screens;
30 a controlling unit for producing image data on contents to be displayed by said
display apparatuses on the basis of said information inputted by said information inputting
unit; and
a video memory having stored therein said image data produced by said controlling
unit, wherein
35 said controlling unit is operative to output said contents to said display apparatuses
through said data outputting units on the basis of said image data stored in said video

memory.

4. A display controlling apparatus as set forth in claim 1, in which
said image data has layers to be collectively defined as data structure, and in which
5 each of said contents to be displayed by said display apparatuses is constituted by
data assigned to one or more of said layers.

5. A display controlling apparatus as set forth in claim 1, in which
said controlling unit is operative to allow said contents to be sequentially received
10 by said display apparatuses through said data outputting units in order of said data
outputting units electrically connected to said display apparatuses in a period of a
synchronization signal.

6. A display controlling apparatus as set forth in claim 5, in which
15 the number of said display apparatuses electrically connected to said data
outputting units is equal to two, and in which
said controlling unit is operative to allow said contents to be received by one of
said two display apparatuses on each of leading edges of said synchronization signal, and to
allow said contents to be received by the other of said two display apparatuses on each of
20 trailing edges of said synchronization signal.

7. A display controlling apparatus as set forth in claim 1, in which
each of said display apparatuses electrically connected to said data outputting units
has an operating unit for issuing an instruction to said controlling unit to select one or more
25 contents, and in which
said controlling unit is operative to judge whether or not one or more contents
selected by one of said display apparatuses are the same as one or more contents which are
being outputted to the other of said display apparatuses, and to allow one of said display
apparatuses to display information on whether or not one or more contents selected by one
30 of said display apparatuses are the same as one or more contents which are being outputted
to the other of said display apparatuses in response to said instruction issued by said
operating unit of one of said display apparatuses.

8. A display controlling apparatus as set forth in claim 1, in which
35 each of said display apparatuses electrically connected to said data outputting units
has an operating unit for issuing an instruction to said controlling unit to select one or more

contents, and in which

said controlling unit is operative to judge whether or not one or more contents selected by one of said display apparatuses are the same as one or more contents which are being utilized through said operating unit to the other of said display apparatuses, and to
5 allow one of said display apparatuses to display information on whether or not one or more contents selected by one of said display apparatuses are the same as one or more contents which are being outputted to the other of said display apparatuses in response to said instruction issued by said operating unit of one of said display apparatuses.

10 9. A display controlling apparatus as set forth in claim 7, in which
said information displayed by one of said display apparatuses is represented by a pointer.

15 10. A display controlling apparatus as set forth in claim 7, in which
said controlling unit is operative to allow one or more contents to be utilized through said operating unit of one of said display apparatuses with the restriction on the use of said contents after allowing one of said display apparatuses to display said information that one or more contents selected by one of said display apparatuses are the same as one or more contents which are being outputted to the other of said display apparatuses.

20 11. A display controlling apparatus as set forth in claim 1, in which
said display apparatuses each has an operating unit for issuing an instruction to said controlling unit to output one or more contents, said display apparatuses being assigned to respective priority sequences, in which

25 said controlling unit is operative to judge whether or not one or more contents which are being outputted to one of said display apparatuses are the same as one or more contents selected by the other of said display apparatuses before judging whether or not one of said display apparatuses exceeds in priority sequence the other of said display apparatuses when the judgment is made that one or more contents selected by the other of
30 said display apparatuses are the same as one or more contents which are being outputted to one of said display apparatuses, and in which

said controlling unit is operative to allow the other of said display apparatuses to display one or more contents the same as one or more contents which are being outputted to one of said display apparatuses with the restriction on the utilization of said contents when
35 the judgment is made that one of said display apparatuses exceeds in priority sequence the other of said display apparatuses.

12. A display controlling apparatus as set forth in claim 11, in which
said controlling unit is operative to allow said priority sequence assigned to each of
said display apparatuses to be changed by each of said operating unit of said display
5 apparatuses.

13. A display controlling apparatus for allowing display apparatuses to display
respective images represented by image data, comprising:

a multiplexing unit for multiplexing said image data indicative of said images to be
10 displayed by the display apparatuses;

a buffer memory having stored therein said multiplexed image data; and

demultiplexing unit for demultiplexing said multiplexed image data stored in said
buffer memory to output said demultiplexed image data to each of said display apparatuses.

14. A display controlling apparatus as set forth in claim 13, which further comprises:
a synchronization signal producing unit for producing a synchronization signal to
be constituted by a pulse string having a predetermined period, and in which

said demultiplexing unit is operative to demultiplex said multiplexed image data
stored in said buffer memory by allowing said multiplexed image data to be selectively
20 received by each of said display apparatuses in said predetermined period of said
synchronization signal.

15. A display controlling apparatus as set forth in claim 13, which further comprises:
a synchronization signal producing unit for producing a synchronization signal to
25 be constituted by a pulse string having a predetermined period, and in which

said demultiplexing unit is operative to demultiplex said multiplexed image data
stored in said buffer memory by allowing said multiplexed image data to be received by one
of said two display apparatuses on each of leading edges of said synchronization signal, and
to be received by the other of said two display apparatuses on each of trailing edges of said
30 synchronization signal.

16. A display controlling apparatus as set forth in claim 13, in which

said multiplexing unit is operative to adjust said resolution of each of said images
to be respectively displayed by the display apparatuses on the basis of the number of said
35 display apparatuses electrically connected to said data outputting units to multiplex image
data indicative of said images to be respectively displayed by the display apparatuses at said

adjusted resolution.

17. A display controlling apparatus as set forth in claim 16, in which
said multiplexing unit is operative to adjust said resolution of each of said images
5 to be respectively displayed by the display apparatuses in inverse proportional relationship
with the number of said display apparatuses electrically connected to said data outputting
units.